INDEX TO VOLUME 29

AUTHOR INDEX

A

AMIN, N. *See* GABR, Y., *et al.*, 80

ARMITAGE, A. K. and BURN, J. H. The effect of physostigmine on the contraction of the retractor penis muscle of the dog in response to sympathetic stimulation, 218

B

BEVERIDGE, E. G. and MARTIN, A. J. Sodium sulphomethyl derivatives of polymyxins, 125

BHARGAVA, K. P., DIXIT, K. S. and GUPTA, G. P. Role of catecholamines and the chemoreceptor trigger zone in reserpine induced emesis, 37

BIANCHI, C. Cardiac properties of the $\Delta^{1,4}$-3-oxo-derivative of digitoxigenin, 280

BURN, J. H. *See* ARMITAGE, A. K., *et al.*, 218

C

CAMPBELL, I. K. *See* FARMER, J. B., *et al.*, 319

COLLINS, R. F., COX, V. A., DAVIS, M., EDGE, N. D., HILL, J., RIVETT, K. F. and RUST, M. A. The antischistosomal and retinotoxic effects of some nuclear substituted aminophenoxyalkanes, 248

COTTRELL, G. A. Occurrence of dopamine and noradrenaline in the nervous tissue of some invertebrate species, 63

COX, V. A. *See* COLLINS, R. F., *et al.*, 248

CUMMINGS, A. J., KING, M. L. and MARTIN B. K. A kinetic study of drug elimination: the excretion of paracetamol and its metabolites in man, 150

CUMMINGS, A. J., MARTIN, B. K. and PARK, G. S. Kinetic considerations relating to the accrual and elimination of drug metabolites, 136

D

D'ARCY, P. F. and HOWARD, E. M. A new anti-inflammatory test, utilizing the chorio-allantoic membrane of the chick embryo, 378

DAVIES, G. E., HOLMAN, G. and LOWE, J. S. Role of Hageman factor in the activation of guinea-pig prekallikrein, 55

DAVIS, M. *See* COLLINS, R. F., *et al.*, 248

DEAN, A. C. R. and MOSS, D. A. The action of barbitone on *Aerobacter aerogenes* (*Klebsiella aerogenes*), 89

DE LA LANDE, I. S. *See* PORTER, R. B., *et al.*, 158

DE NATALE, G. *See* MIELE, E., *et al.*, 8

DIXIT, K. S. *See* BHARGAVA, K. P., *et al.*, 37

E

EDGE, N. D. *See* COLLINS, R. F., *et al.*, 248

ELSBY, J. M. and WILSON, H. Lacrimal secretion in the cat, 1

F

FARMER, J. B. and CAMPBELL, I. K. Calcium and magnesium ions: influence on the response of an isolated artery to sympathetic nerve stimulation, noradrenaline and tyramine, 319

FAWAZ, G. Effect of reserpine and pronethalol on the therapeutic and toxic actions of digitalis in the dog heart–lung preparation, 302

FERREIRA, S. H. and VANE, J. R. The detection and estimation of bradykinin in the circulating blood, 367

G

GABR, Y. and AMIN, N. Possible role of lecithin in the development of the slow muscle contracting activity of human plasma, 80

GERSHON, Michael D. Effects of tetrodotoxin on innervated smooth muscle preparations, 259

GIARMAN, N. J. and REIT, E. An effect of histamine on the nictitating membrane of the cat: potentiation of the actions of adrenaline, noradrenaline and acetylcholine, 168

GILLIS, C. N. and PATON, D. M. Cation dependence of sympathetic transmitter retention by slices of rat ventricle, 309

GREENBAUM, L. M. and KIM, K. S. The kinin-forming and kininase activities of rabbit polymorphonuclear leucocytes, 238

GUPTA, G. P. *See* BHARGAVA, K. P., *et al.*, 37

H

HANDSCHUMACHER, R. E. and VANE, J. R. The relationship between the penetration of tryptamine and 5-hydroxytryptamine into smooth muscle and the associated contractions, 105

HARANATH, P. S. R. K., SUNANDA-BAI, K. and VENKATA-KRISHNA-BHATT, H. Intracarotid injections and infusions of cholinomimetic drugs and their antagonists in conscious dogs, 42

HARRIS, J. M., LUSCOMBE, D. K. and POYSER, R. H. The influence of molecular weight and structure on the vascular permeability responses induced by glucose polymers in rat skin, 16

HEISLER, S. and KOVACS, Eva M. The effect of cortisone on gastric histamine content and gastric secretion in pylorus ligated guinea-pigs, 329

HILL, J. *See* COLLINS, R. F., *et al.*, 248

HOLMAN, G. *See* DAVIES, G. E., *et al.*, 55

HOWARD, E. M. *See* D'ARCY, P. F., *et al.*, 378

J

JACOBSEN, S. and KRIZ, M. Some data on two purified kininogens from human plasma, 25

K

KARIM, S. M. M. The identification of prostaglandins in human umbilical cord, 230

KIM, K. S. *See* GREENBAUM, L. M., *et al.*, 238

KING, M. L. *See* CUMMINGS, A. J., *et al.*, 150

KOVACS, Eva M. *See* HEISLER, S., *et al.*, 329

KRIZ, M. *See* JACOBSEN, S., *et al.*, 25

INDEX TO VOLUME 29

AUTHOR INDEX

A

AMIN, N. *See* GABR, Y., *et al.*, 80

ARMITAGE, A. K. and BURN, J. H. The effect of physostigmine on the contraction of the retractor penis muscle of the dog in response to sympathetic stimulation, 218

B

BEVERIDGE, E. G. and MARTIN, A. J. Sodium sulphomethyl derivatives of polymyxins, 125

BHARGAVA, K. P., DIXIT, K. S. and GUPTA, G. P. Role of catecholamines and the chemoreceptor trigger zone in reserpine induced emesis, 37

BIANCHI, C. Cardiac properties of the $\Delta^{1,4}$-3-oxo-derivative of digitoxigenin, 280

BURN, J. H. *See* ARMITAGE, A. K., *et al.*, 218

C

CAMPBELL, I. K. *See* FARMER, J. B., *et al.*, 319

COLLINS, R. F., COX, V. A., DAVIS, M., EDGE, N. D., HILL, J., RIVETT, K. F. and RUST, M. A. The antischistosomal and retinotoxic effects of some nuclear substituted aminophenoxyalkanes, 248

COTTRELL, G. A. Occurrence of dopamine and noradrenaline in the nervous tissue of some invertebrate species, 63

COX, V. A. *See* COLLINS, R. F., *et al.*, 248

CUMMINGS, A. J., KING, M. L. and MARTIN B. K. A kinetic study of drug elimination: the excretion of paracetamol and its metabolites in man, 150

CUMMINGS, A. J., MARTIN, B. K. and PARK, G. S. Kinetic considerations relating to the accrual and elimination of drug metabolites, 136

D

D'ARCY, P. F. and HOWARD, E. M. A new anti-inflammatory test, utilizing the chorio-allantoic membrane of the chick embryo, 378

DAVIES, G. E., HOLMAN, G. and LOWE, J. S. Role of Hageman factor in the activation of guinea-pig prekallikrein, 55

DAVIS, M. *See* COLLINS, R. F., *et al.*, 248

DEAN, A. C. R. and MOSS, D. A. The action of barbitone on *Aerobacter aerogenes* (*Klebsiella aerogenes*), 89

DE LA LANDE, I. S. *See* PORTER, R. B., *et al.*, 158

DE NATALE, G. *See* MIELE, E., *et al.*, 8

DIXIT, K. S. *See* BHARGAVA, K. P., *et al.*, 37

E

EDGE, N. D. *See* COLLINS, R. F., *et al.*, 248

ELSBY, J. M. and WILSON, H. Lacrimal secretion in the cat, 1

F

FARMER, J. B. and CAMPBELL, I. K. Calcium and magnesium ions: influence on the response of an isolated artery to sympathetic nerve stimulation, noradrenaline and tyramine, 319

FAWAZ, G. Effect of reserpine and pronethalol on the therapeutic and toxic actions of digitalis in the dog heart–lung preparation, 302

FERREIRA, S. H. and VANE, J. R. The detection and estimation of bradykinin in the circulating blood, 367

G

GABR, Y. and AMIN, N. Possible role of lecithin in the development of the slow muscle contracting activity of human plasma, 80

GERSHON, Michael D. Effects of tetrodotoxin on innervated smooth muscle preparations, 259

GIARMAN, N. J. and REIT, E. An effect of histamine on the nictitating membrane of the cat: potentiation of the actions of adrenaline, noradrenaline and acetylcholine, 168

GILLIS, C. N. and PATON, D. M. Cation dependence of sympathetic transmitter retention by slices of rat ventricle, 309

GREENBAUM, L. M. and KIM, K. S. The kinin-forming and kininase activities of rabbit polymorphonuclear leucocytes, 238

GUPTA, G. P. *See* BHARGAVA, K. P., *et al.*, 37

H

HANDSCHUMACHER, R. E. and VANE, J. R. The relationship between the penetration of tryptamine and 5-hydroxytryptamine into smooth muscle and the associated contractions, 105

HARANATH, P. S. R. K., SUNANDA-BAI, K. and VENKATA-KRISHNA-BHATT, H. Intracarotid injections and infusions of cholinomimetic drugs and their antagonists in conscious dogs, 42

HARRIS, J. M., LUSCOMBE, D. K. and POYSER, R. H. The influence of molecular weight and structure on the vascular permeability responses induced by glucose polymers in rat skin, 16

HEISLER, S. and KOVACS, Eva M. The effect of cortisone on gastric histamine content and gastric secretion in pylorus ligated guinea-pigs, 329

HILL, J. *See* COLLINS, R. F., *et al.*, 248

HOLMAN, G. *See* DAVIES, G. E., *et al.*, 55

HOWARD, E. M. *See* D'ARCY, P. F., *et al.*, 378

J

JACOBSEN, S. and KRIZ, M. Some data on two purified kininogens from human plasma, 25

K

KARIM, S. M. M. The identification of prostaglandins in human umbilical cord, 230

KIM, K. S. *See* GREENBAUM, L. M., *et al.*, 238

KING, M. L. *See* CUMMINGS, A. J., *et al.*, 150

KOVACS, Eva M. *See* HEISLER, S., *et al.*, 329

KRIZ, M. *See* JACOBSEN, S., *et al.*, 25

L

LESSIN, A. W., LONG, R. F. and PARKES, M. W. The central stimulant properties of some substituted indolylalkylamines and β-carbolines and their activities as inhibitors of monoamine oxidase and the uptake of 5-hydroxytryptamine, 70
LONG, R. F. *See* LESSIN, A. W., *et al.*, 70
LOWE, J. S. *See* DAVIES, G. E., *et al.*, 55
LUNDBORG, P. and STITZEL, R. Uptake of biogenic amines by two different mechanisms present in adrenergic granules, 342
LUNDBORG, P. *See* STITZEL, R. E., *et al.*, 99
LUSCOMBE, D. K. *See* HARRIS, J. M., *et al.*, 16

M

MARTIN, A. J. *See* BEVERIDGE, E. G., *et al.*, 125
MARTIN, B. K. Drug urinary excretion data—some aspects concerning the interpretation, 181
MARTIN, B. K. *See* CUMMINGS, A. J., *et al.*, 136, 150
MIELE, E. and DE NATALE, G. Modification of pressor effects of some vasoactive polypeptides in the rat by guanethidine, propranolol and related agents, 8
MOSS, D. A. *See* DEAN, A. C. R., *et al.*, 89

P

PARK, G. S. *See* CUMMINGS, A. J., *et al.*, 136
PARKES, M. W. *See* LESSIN, A. W., *et al.*, 70
PATON, D. M. *See* GILLIS, C. N., *et al.*, 309
PATON, W. D. M. Experiments on the convulsant and anaesthetic effects of oxygen, 350
PORTER, R. B. and DE LA LANDE, I. S. Factors influencing the action of morphine on acetylcholine release in the guinea-pig intestine, 158
POYSER, R. H. *See* HARRIS, J. M., *et al.*, 16

R

REIT, E. *See* GIARMAN, N. J., *et al.*, 168
RIVETT, K. F. *See* COLLINS, R. F., *et al.*, 248
ROBINSON, D. and SHARMAN, D. F. The action of 2-amino-tetralin (β-tetrahydronaphthylamine) on the metabolism of 5-hydroxytryptamine in the brain of the mouse, 335
ROBSON, R. D. The action of adrenergic neurone blocking agents and other drugs on the pressor responses of various agents in the anaesthetized rat, 194
RUST, M. A. *See* COLLINS, R. F., *et al.*, 248

S

SHANKS, R. G. The peripheral vascular effects of propranolol and related compounds, 204
SHARMAN, D. F. *See* ROBINSON, D., *et al.*, 335
STITZEL, R. *See* LUNDBORG, P., *et al.*, 342
STITZEL, R. E. and LUNDBORG, P. Effect of reserpine and monoamine oxidase inhibition on the uptake and subcellular distribution of ^{3}H-noradrenaline, 99
SUNANDA-BAI, K. *See* HARANATH, P. S. R. K., *et al.*, 42

T

TOTHILL, Anne. Investigation of adrenaline reversal in the rat uterus by the induction of resistance to isoprenaline, 291

V

VANE, J. R. *See* FERREIRA, S. H., *et al.*, 367
VANE, J. R. *See* HANDSCHUMACHER, R. E., *et al.*, 105
VENKATAKRISHNA-BHATT, H. *See* HARANATH, P. S. R. K., *et al.*, 42

W

WILSON, H. *See* ELSBY, J. M., *et al.*, 1

SUBJECT INDEX

A

Absorption rate, of drugs, effect on rate of elimination, 144
Accrual, of drug metabolites, kinetics of, 138
Acetylcholine, effect on isolated blood-perfused cat jejunum, 370
——, intracarotid infusion of, blood pressure response to, in anaesthetized dog, 51
——, ——, response to, and effect of atropine on, in conscious dog, 48
——, intracarotid injection of, response to, and effect of carotid artery ligation on, in conscious dog, 44
——, release from guinea-pig intestine preparations, and effect of morphine on, 160
——, ——, effect of morphine on, response to cooling, procaine, anoxia and changes in incubating medium, 162
——, ——, ——, response to subdivision of intestine, 161
——, response of guinea-pig ileum to, effect of hyoscine, eserine and tetrodotoxin on, 262
——, response of nictitating membrane to, and effect of histamine on, in curarized cat, 169
——, ——, effect of histamine on, action of phentolamine and adrenalectomy on, 170
——, ——, effect of mepyramine on, 174
——, ——, effect of temporary carotid arterial occlusion on, 176
——, ——, effect of vasoactive agents on, 175
——, response of penis retractor muscle to, and effect of cutting sympathetic chains on, in eviscerated dog, 219
——, response of smooth muscle preparations to, and effect of hyoscine, eserine and tetrodotoxin on, 267
Adenosine, effect on response of cat nictitating membrane to acetylcholine, 175
Adenosine triphosphate, effect on response of cat nictitating membrane to acetylcholine, 175
——, effect on subcellular distribution of noradrenaline, α-methyl noradrenaline and metaraminol, in mouse heart preparations, 344
Adrenalectomy, effect on blood pressure response to bradykinin, in rat, 12
——, effect on blood pressure response to [4-*m*-chlorophenylcarbamoyloxy)-but-2-ynyl]trimethylammonium and tyramine, in anaesthetized rat, 196
——, effect on histamine potentiation of response of nictitating membrane, to adrenaline and acetylcholine, in curarized cat, 170
Adrenaline, blood flow response to, effect of phenoxybenzamine plus propranolol on, 212
——, ——, effect of propranolol on, in anaesthetized dog, 210
——, blood pressure response to, and effect of guanethidine on, in rat, 10
——, effect on isolated blood-perfused cat jejunum, 370
——, effect on isolated rat uterus in induced oestrus, 292
——, effect on isoprenaline-primed and -resistant rat uteri, 293
——, effect on response to bradykinin, of blood-perfused mammalian tissues, 370
——, response of isoprenaline-primed and unprimed rat uterus to, effect of α- and β-receptor blocking agents on, 295
——, response of nictitating membrane to, and effect of histamine on, in curarized cat, 169
Aerobacter aerogenes (*Klebsiella aerogenes*), pre-growth lag and growth rate response to barbitone, 90
Amines, biogenic, uptake by adrenergic granules, 342
——, subcellular distribution of, in mouse heart preparations, effect of nialamide, reserpine, ATP, magnesium ion concentration and temperature on, 344
4-Amino-2-carboxyphenol, alkyl ethers of, oral toxicity and antischistosomal activity of, in mouse, 255
4-Aminoguaiacol, alkyl, cycloalkyl, phenylalkyl and other alkyl ethers of, oral toxicity and antischistosomal activity of, in mouse, 250, 251
4-Amino-2-methylsulphonylmethylphenol, alkyl ethers of, oral toxicity and antischistosomal activity of, in mouse, 253
Aminophenoxyalkanes, antischistosomal and retinotoxic effects of, in mouse, 248
1-p-Aminophenoxyoctane, nuclear substituted derivatives of, oral toxicity and antischistosomal activity of, in mouse, 255
1-p-Aminophenoxy-5-phthalimidopentane, nuclear substituted derivatives of, oral toxicity and antischistosomal activity of, in mouse, 255
2-Amino-tetralin. *See* β-Tetrahydronaphthylamine
D-Amphetamine, effect on response to bradykinin, in rat, 10
Anaesthetic action, of oxygen, and effect of bromide on, in mouse, 356
Angiotensin, effect on isolated blood-perfused cat jejunum, 370
——, effect on response of cat nictitating membrane to acetylcholine, 175
——, response of guinea-pig ileum smooth muscle preparations to, and effect of tetrodotoxin, eserine and hyoscine on, 274
Anoxia, of incubation medium, effect on acetylcholine release from guinea-pig intestine of, 162
——, ——, effect on ventricular noradrenaline retention, 313
Anticholinesterases, effect on lacrimal secretion response to lacrimal nerve stimulation, 3
Anti-inflammatory agents, test for, on chorio-allantoic membrane, in chick embryo, 378
Artery, rabbit central ear, response to sympathetic stimulation, noradrenaline and tyramine, effect of calcium ion concentration on, 322
Atropine, effect on lacrimal secretion response to lacrimal nerve stimulation, 4
——, effect on response to electrical stimulation, of isolated stomach preparations, 261
——, intracarotid infusion of, blood pressure response to, in anaesthetized dog, 51
——, ——, response to, in conscious dog, 49
——, intracarotid injection of, response to, in conscious dog, 46
Azamethonium, effect on blood pressure, and on response to bradykinin, eledoisin and physalaemin, in rat, 12

B

Barbitone, antibacterial action of, 89
——, effect on glucose dehydrogenase activity of *Aerobacter aerogenes*, 93
——, effect on median cell size of *A. aerogenes*, 91
——, effect on pre-growth lag and growth rate of *A. aerogenes*, 90

Barbitone (*contd.*)
——, plus ethanol, effect on growth rate of *A. aerogenes*, 93
——, plus 2-phenylethanol, effect on growth rate of *A. aerogenes*, 93
Barium chloride, response of guinea-pig ileum smooth muscle preparations to, and effect of tetrodotoxin, eserine and hyoscine on, 273
Betamethasone, anti-inflammatory effect of, fertile egg test for, 384
Bethanidine, effect on blood pressure response to [4-(*m*-chlorophenylcarbamoyloxy)-but-2-ynyl]trimethylammonium, noradrenaline and tyramine, in anaesthetized rat, 195
——, effect on blood pressure response to noradrenaline, 200
Blood, circulating, dog and cat, assay of bradykinin in, 372
Blood flow, response to adrenaline, effect of phenoxybenzamine plus propranolol on, 212
——, ——, effect of propranolol on, 210
——, response to isoprenaline, effect of propranolol on, 208
——, ——, effect of (+)-propranolol on, 209
——, response to noradrenaline and bradykinin, effect of propranolol on, 213
——, response to propranolol, and effect of (+)- and (—)-propranolol on, in anaesthetized dog, 205
——, ——, effect of MJ 1999, pronethalol, I.C.I. 45,763 and dichloroisoprenaline on, 208
——, ——, effect of phenoxybenzamine and MJ 1999 on, 207
Blood plasma, human, as incubating fluid, effect on hydrolysis of sulphomethyl groups of polymyxins, 130
——, ——, slow muscle contracting activity of, and effect of lecithin on, in guinea-pig ileum, 82
Blood pressure, response to adrenaline, effect of guanethidine on ,10
——, response to bradykinin, effect of α-receptor blocking agents and adrenalectomy on, 12
——, response to [4-(*m*-chlorophenylcarbamoyloxy)-but-2-ynyl]trimethylammonium, noradrenaline and tyramine, in anaesthetized rat, 195
——, response to eledoisin and physalaemin, 12
——, ——, and effect of guanethidine on, 10
——, response to ganglion stimulants, effect of adrenergic neurone blocking agents and adrenalectomy on, 196, 200
——, response to guanethidine, in rat, 9
——, ——, effect of bradykinin on, 10
Blood serum, guinea-pig, effect on γ-globulin, 57
Bradykinin, blood flow response to, effect of propranolol on, 213
——, blood pressure response to, and effect of guanethidine, β-receptor blocking agents and d-amphetamine on, 10
——, ——, effect of α-receptor blocking agents and adrenalectomy on, 12
——, effect on response of cat nictitating membrane to acetylcholine, and action of mepyramine on, 175
——, in circulating blood, assay of, 367
——, inactivation by circulating dog's blood, 370
——, intravenous, detection in arterial blood, 372
——, response of guinea-pig ileum smooth muscle preparations to, and effect of tetrodotoxin, eserine and hyoscine on, 273
——, response of isolated blood-perfused mammalian tissues to, 368
Bretylium, effect on blood pressure response to [4-(*m*-chlorophenylcarbamoyl-oxy)-but-2-ynyl]trimethylammonium, noradrenaline and tyramine, in anaesthetized rat, 195
——, effect on blood pressure response to noradrenaline, 200
Bromide, effect on oxygen-induced convulsions, in mouse, 356, 361
Bromolysergic acid, effect on response to adrenaline, noradrenaline, phenylephrine and 5-hydroxytryptamine, of isoprenaline-primed and unprimed rat uteri, 294
Bromolysergic acid diethylamide, effect on response of rat stomach smooth muscle to tryptamines, 109

C

CS. *See* Colistin sulphate
CSMS. *See* Colistin sulphomethate
Calcium ions, bath concentration of, effect on ventricular noradrenaline retention, 314
——, effect of interaction with magnesium ions on response of rabbit central ear artery to sympathetic stimulation, noradrenaline and tyramine, 323
——, effect on slow muscle contracting activity of plasma–lecithin incubate, 84
——, influence on response to sympathetic stimulation, noradrenaline and tyramine, of isolated rabbit ear artery, 319
β-Carbolines, central stimulant properties, and monoamine oxidase and 5-hydroxytryptamine uptake inhibitory activity of, 70
Catecholamines, effect on response to bradykinin, in mammalian tissues, 370
——, in invertebrate nervous tissue, 63
——, role in reserpine-induced emesis, in dog, 39
Cells, *Aerobacter aerogenes*, median size, response to barbitone, 91
Central stimulant action, of β-carbolines, 75
——, of indolylalkylamines, 71
Chemoreceptor trigger-zone ablation, effect on reserpine-induced emesis, in dog, 39
[4-(*m*-Chlorophenylcarbamoyloxy)-but-2-ynyl]trimethylammonium, blood pressure response to, and effect of bretylium, phenoxypropylguanidine and bethanidine on, in anaesthetized rat, 195
——, ——, effect of adrenergic neurone blocking agents and adrenalectomy on, 196
Chloroquine, anti-inflammatory effect of, fertile egg test for, 384
Chlorpromazine, effect on oxygen-induced convulsions, in mouse, 357, 361
Choline phenyl ether, response of smooth muscle preparations to, and effect of hyoscine, eserine, and tetrodotoxin on, 267
Cholinomimetic agents, and antagonists, intracarotid, effect on conscious dogs, 42
Cobalt, effect on oxygen-induced convulsions, in mouse, 358, 361
Colistin sulphate, minimum inhibitory concentration of, against *E. coli*, and effect of temperature on, 127
Colistin sulphomethate, electrophoretic separation and hydrolysis of sulphomethyl groups of, and effect of temperature on, 129
——, intramuscular injection of, side effects of, comparison with sodium polymyxin B methanesulphonate in man, 132
——, minimum inhibitory concentration of, against *E. coli*, and effect of temperature on, 127

Collagen, serum- and plasma-treated, activation of guinea-pig pre-kallikrein by, 60
Convulsions, oxygen-induced, time taken to appear, and relation to pressure, in mouse and rat, 353
Cortisone, effect on gastric histamine and secretion, in pylorus ligated guinea-pig, 329
Crustaceans, catecholamines in nervous tissue of, 65

D

DCI. *See* Dichloroisoproterenol
Dextrans, influence of molecular weight on vascular permeability response to, in rat skin, 17
——, vascular permeability response to, effect of glucose and other sugars on, 20
Dextrin, influence of molecular weight on vascular permeability response to, in rat skin, 17
——, vascular permeability response to, effect of glucose and other sugars on, 20
Dialysis, effect on slow muscle contracting activity of plasma–lecithin incubate, 84
1-5-Di-(4-amino-2-hydroxymethylphenoxy) pentane, antischistosomal activity of, 257
1-5-Di-(4-amino-2-methylsulphonylmethylphenoxy) pentane, antischistosomal activity of, 257
Dichloroisoprenaline, effect on vasodilator action of propranolol, in anaesthetized dog, 208
Dichloroisoproterenol, effect on response to bradykinin, in rat, 10
Diethazine, effect on oxygen-induced convulsions, in mouse, 359, 360, 361
Digitoxigenin, cardiac response to, in guinea-pig, 283
——, $\Delta^{1,4}$-3-oxo-derivative of, cardiac properties of, 280
——, response of isolated guinea-pig heart preparations to, 287
Digitoxin, cardiac response to, in guinea-pig, 283
——, response of dog heart–lung preparation to, effect of reserpine and pronethalol on, 303
——, response of isolated guinea-pig heart preparations to, 287
Dihydroergotamine, and hydergine, effect on response to adrenaline, noradrenaline, phenylephrine and 5-hydroxytryptamine, of isoprenaline-primed and unprimed rat uteri, 294
Dimercaprol, effect on oxygen-induced convulsions, in mouse, 358, 361
Dimethylphenylpiperazinium, response of smooth muscle preparations to, and effect of hyoscine, eserine, and tetrodotoxin on, 267
αα-Dimethyltryptamine, effect on 5-hydroxytryptamine uptake by blood platelets, in mouse, 76
Dopamine, in invertebrate nervous tissue, 63
Drug metabolism, kinetics of, 136

E

Echinoderms, catecholamines in nervous tissue of, and effect of reserpine on, 64
Eledoisin, blood pressure response to, effect of guanethidine on, in rat, 10
——, effect on isolated blood-perfused cat jejunum, 369
Embryo, chick, as test organism for anti-inflammatory agents, 378
Emesis, reserpine-induced, role of catecholamines in, in dog, 37
Eserine, effect on response to acetylcholine, of smooth muscle preparations, 267
——, effect on response to barium and potassium ions, of guinea-pig ileum smooth muscle preparations, 273
——, effect on response to electrical stimulation, of isolated stomach preparations, 261
——, ——, of rabbit small intestine preparations, 262
——, effect on response to electrical stimulation and acetylcholine, of guinea-pig ileum, 262
——, effect on response to ganglion stimulants, of smooth muscle preparations, 267
——, effect on response to 5-hydroxytryptamine, of smooth muscle preparations, 271
——, effect on response to polypeptides, of guinea-pig ileum smooth muscle preparations, 273
Ethanol, plus barbitone, effect on growth rate of *Aerobacter aerogenes*, 95
Excretion, urinary, of drugs and metabolites, determination of rate of, 147
——, ——, ——, effect of absorption rate on, 144
——, ——, ——, kinetics of, 136, 141
——, ——, ——, "Rate" method of calculation, 147, 155, 184
——, ——, ——, "Sigma minus" method of calculation, 143, 154, 181
——, ——, of paracetamol and its metabolites, kinetics of, in man, 150
——, ——, ——, rate of, 154

F

Fatty acids, free, in plasma and lecithin-plasma, 83
Fluoroacetate, effect on oxygen-induced convulsions, in mouse, 360

G

Ganglion stimulants, response of smooth muscle preparations to, and effect of hyoscine, eserine, and tetrodotoxin on, 267
Ganglionic blockade, effect on pressor responses to various drugs, in anaesthetized rat, 195
Gastric secretion, response to cortisone, in pylorus ligated guinea-pig, 331
γ-Globulin, response to guinea-pig serum, 57
——, response to normal and Hageman-trait human plasma, and effect of Celite eluate, 58
Glucose, effect on vascular permeability response to polysaccharides, in rat skin, 20
——, lack in incubating medium of, effect on acetylcholine release from guinea-pig intestine of, 162
Glucose dehydrogenase activity, of *Aerobacter aerogenes*, response to barbitone, 93
Guanethidine, blood pressure response to, in rat, 9
——, ——, effect of bradykinin, eledoisin and physalaemin on, 10
——, effect on blood pressure response to adrenaline, 10
——, effect on blood pressure response to [4-(*m*-chlorophenylcarbamoyloxy)-but-2-ynyl]trimethylammonium and tyramine, in anaesthetized rat, 196
——, effect on blood pressure response to noradrenaline, 200

H

Hageman factor, in activation of guinea-pig pre-kallikrein, 55

Harmaline, central stimulant action, and monoamine oxidase and 5-hydroxytryptamine uptake inhibitory activity of, compared with indolylalkylamines and β-carbolines, 71
Heart, isolated guinea-pig preparations, response to digitoxin, digitoxigenin and $\Delta^{1,4}$-3-oxo-digitoxigenin, 287
——, ——, response to ouabain and DH-ouabain, 285
Heart arrest, induced by digitoxin, digitoxigenin and $\Delta^{1,4}$-3-oxo-digitoxigenin, in guinea-pig, 283
Heart beat, response to digitoxin and ouabain, and effect of pronethalol on, in dog heart–lung preparations, 303
——, response to isoprenaline, and effect of propranolol on, 209
Hexamethonium, effect on oxygen-induced convulsions, in mouse, 358, 362
——, intracarotid infusion of, blood pressure response to, in anaesthetized dog, 51
——, ——, response to, in conscious dog, 51
——, intracarotid injection of, response to, in conscious dog, 46
Histamine, effect on isolated blood-perfused cat jejunum, 370
——, effect on mammalian organ preparations, and on response to noradrenaline, and action of tetrodotoxin and hyoscine on, 266
——, effect on time course of response of nictitating membrane to adrenaline, noradrenaline and acetylcholine, and analysis of site of action, 173
——, in stomach, response to cortisone, in intact guinea-pig, 330
——, ——, ——, in pylorus ligated guinea-pig, 331
——, potentiation of response of nictitating membrane by, to adrenaline and acetylcholine, effect of adrenalectomy and phentolamine on, 170
——, ——, to adrenaline, noradrenaline and acetylcholine, in curarized cat, 168
——, potentiation of response to acetylcholine by, effect of mepyramine on, 175
——, ——, effect of time interval between injections on, 171
Hydergine, and dihydroergotamine, effect on response to adrenaline, noradrenaline, phenylephrine and 5-hydroxytryptamine, of isoprenaline-primed and unprimed rat uteri, 294
Hydrocortisone, anti-inflammatory effect of, fertile egg test for, 384
5-Hydroxyindol-3-ylacetic acid, in brain, response to 2-amino-tetralin, and α-methyldopa, in mouse, 336
——, ——, response to pheniprazine alone and with α-methyldopa, 338
——, ——, response to tryptophan, effect of 2-amino-tetralin on, 337
5-Hydroxytryptamine, effect on isolated blood-perfused cat jejunum, 370
——, in brain, response to 2-amino-tetralin, and α-methyldopa, in mouse, 336
——, ——, response to pheniprazine alone and with α-methyldopa, 338
——, ——, response to tryptophan, effect of 2-amino-tetralin on, 337
——, in molluscs, and effect of reserpine on, 64
——, monoamine oxidase activity and lipid solubility of, and response of contraction rate of rat stomach strip to, effect of pH on, 114
——, penetration of rat stomach smooth muscle by, effect of pH on, 110
5-Hydroxytryptamine (*contd.*)
——, response of isoprenaline-primed and unprimed rat uterus to, effect of α- and β-receptor blocking agents on, 295
——, response of penis retractor muscle to, comparison with noradrenaline, in eviscerated dog, 225
——, response of rat stomach smooth muscle to, effect of bromolysergic acid diethylamide on, 109
——, ——, effect of pH on, 108
——, response of smooth muscle preparations to, and effect of hyoscine, eserine and tetrodotoxin on, 271
——, ——, relation to tryptamine, 109
——, uptake by blood platelets, response to indolylalkylamines, relative to tryptamine, 76
5-Hydroxytryptophan, tremor induction by, effect of indolylalkylamines and β-carbolines on, in mouse, 75
Hyoscine, effect on response to acetylcholine, of smooth muscle preparations, 267
——, ——, noradrenaline and physostigmine, of penis retractor muscle, and action of postganglionic stimulation, in dog, 221
——, effect on response to barium and potassium ions, of guinea-pig ileum smooth muscle preparations, 273
——, effect on response to electrical stimulation, of isolated stomach preparations, 261
——, ——, of rabbit small intestine preparations, 262
——, effect on response to electrical stimulation and acetylcholine, of guinea-pig ileum, 262
——, effect on response to ganglion stimulants, of smooth muscle preparations, 267
——, effect on response to 5-hydroxytryptamine, of smooth muscle preparations, 271
——, effect on response to noradrenaline and histamine, of mammalian organ preparations, 266
——, effect on response to polypeptides, of guinea-pig ileum smooth muscle preparations, 273

I

I.C.I. 45,763, effect on vasodilator action of propranolol, in anaesthetized dog, 208
Indolylalkylamines, central stimulant properties, and monoamine oxidase and 5-hydroxytryptamine uptake inhibitory activity of, 70
——, effect on tremor induction by 5-hydroxytryptophan, in mouse, 75
Indomethacin, anti-inflammatory effect of, fertile egg test for, 384
Inflammation, induced by filter paper on chorio-allantoic membrane, in chick embryo, 381
——, ——, response to drugs, 383
Intestine, guinea-pig, acetylcholine release from, response to morphine, and effect of cooling, procaine, anoxia and changes in incubating medium on, 162
——, ——, ——, ——, and effect of subdivision of intestine on, 161
——, large, guinea-pig, response to prostaglandins from human umbilical cord, 230
——, small, cat, response to bradykinin and catecholamines, and effect of adrenaline on response to bradykinin, 370
——, ——, guinea-pig, response to electrical stimulation and acetylcholine, and effect of hyoscine, eserine and tetrodotoxin on, 262
——, ——, ——, slow muscle contraction induced by plasma, and effect of lecithin on, 82

Intestine (*contd.*)
——, ——, rabbit, response to stimulation, and effect of hyoscine, eserine and tetrodotoxin on, 262
Isoprenaline, effect on isolated rat uterus in induced oestrus, 292
——, rat uteri primed by and resistant to, response to adrenaline, noradrenaline and phenylephrine, 293
——, vasodilator action of, effect of propranolol on, in anaesthetized dog, 208
4-(2-Isopropylamino-1-hydroxyethyl) methane sulphonanilide hydrochloride, effect on vasodilator action of propranolol, in anaesthetized dog, 207
Isoxsuprine, effect on response of cat nictitating membrane to acetylcholine, 175

K

Kallidin, effect on isolated blood-perfused cat jejunum 369
pre-**Kallikrein,** activation by guinea-pig serum, and effect of varying concentrations and shaking times with ballotini, 57
Kaolin, effect on slow muscle contracting activity of plasma–lecithin incubate, 85
Kinetics, of drug metabolism and elimination, 136, 181
——, of paracetamol metabolism, in man, 150
Kininase activity, of polymorphonuclear leucocytes, effect of manganese, cobalt, copper, mercury, DFP, zinc, bisulphite, α,α-dipyridyl, trasylol, EDTA and cysteine on, 242
——, ——, from glycogen-induced rabbit peritoneal exudate, cellular location and optimum pH of, 239
Kinin-forming activity, of polymorphonuclear leucocytes, 242
——, ——, effect of DFP, trasylol, trypsin soya bean inhibitor, zinc, nickel and iron ions on, 245
——, ——, cellular location of, 243
——, ——, optimum pH of, 244
Kininogens, human plasma, molecular dimensions and protein content of substrates for, 28
——, ——, purification of substrates for, 27
Klebsiella aerogenes. See Aerobacter aerogenes

L

Lacrimal secretion, response to lacrimal nerve stimulation, in cat, 2
——, ——, effect of removal of lacrimal gland and of anticholinesterases on, 3
Lecithin, effect on slow muscle contracting action of human plasma, in guinea-pig ileum, 82
Leucocytes, polymorphonuclear, rabbit, kinin-forming and kininase activity of, 238
Lipid solubility, of tryptamine and 5-hydroxytryptamine, effect of pH on, 114
Luteose, influence of molecular weight on vascular permeability response to, in rat skin, 17
——, vascular permeability response to, effect of glucose and other sugars on, 20

M

McN-A-343. *See* [4-(*m*-Chlorophenylcarbamoyloxy)-but-2-ynyl]trimethylammonium
MJ. 1999. *See* 4-(2-Isopropylamino-1-hydroxyethyl) methane sulphonanilide hydrochloride
MMT. *See* L-Methyl meta tyrosine
Magnesium ions, bath concentration of, effect on subcellular distribution of noradrenaline, α-methyl noradrenaline and metaraminol, in mouse heart preparations, 344
——, ——, effect on ventricular noradrenaline retention, 314
——, effect of interaction with calcium ions on response of rabbit central ear artery to sympathetic stimulation, noradrenaline and tyramine, 323
——, influence on response to sympathetic stimulation, noradrenaline and tyramine, of isolated rabbit ear artery, 319
Mephenesin, effect on oxygen-induced convulsions, in mouse, 358, 360, 361
Mepyramine, effect on histamine potentiation of response of cat nictitating membrane to acetylcholine, 174
Metabolism, of paracetamol, in man, 152
——, of tryptamines, in rat stomach smooth muscle, 109
——, of urinary excretion of drugs, 181
Metabolites, drug, kinetics of accrual and elimination of, 136
——, ——, urinary excretion of, calculation of, 185
Metaraminol, uptake and subcellular distribution of, in mouse heart preparations, comparison with noradrenaline and α-methyl noradrenaline, 343
α-Methyl-3,4-dihydroxyphenylalanine. *See* α-Methyldopa
α-Methyldopa, effect on blood pressure response to [4-(*m*-chlorophenylcarbamoyloxy) - but - 2 - ynyl]trimethylammonium and tyramine, in anaesthetized rat, 196
——, effect on blood pressure response to noradrenaline, 200
——, effect on brain 5-hydroxytryptamine and 5-hydroxyindol-3-ylacetic acid, in mouse, 337
——, plus pheniprazine, effect on brain 5-hydroxytryptamine and 5-hydroxyindol-3-ylacetic acid, in mouse, 338
Methyl fluoroacetate. *See* Fluoroacetate
L-Methyl meta tyrosine, effect on reserpine-induced emesis, in dog, 38
α-Methyl noradrenaline, subcellular distribution of, in mouse heart preparations, effect of nialamide, reserpine, ATP, magnesium ion concentration and temperature on, 344
——, uptake and subcellular distribution of, in mouse heart preparations, comparison with noradrenaline and metaraminol, 343
α-Methyltryptamine, effect on 5-hydroxytryptamine uptake by blood platelets, in mouse, 76
——, response of rat stomach smooth muscle to, effect of pH on, 109
Molluscs, catecholamines in nervous tissue of, and effect of reserpine on, 64
Monoamine oxidase activity, of tryptamine and 5-hydroxytryptamine, effect of pH on, 114
Monoamine oxidase inhibition, by β-carbolines, 75
——, by indolylalkylamines, compared with harmaline, 71, 75
——, effect on response of rat stomach smooth muscle to tryptamine and 5-hydroxytryptamine at varying pH, 109
——, effect on uptake and subcellular distribution of noradrenaline, in mouse heart, 100
Morphine, effect on acetylcholine release from guinea-pig intestine, 160

Morphine (*contd.*)
——, ——, and response to subdivision of intestine, 161
——, ——, response to cooling, procaine, anoxia and changes in incubating medium, 162
——, effect on histamine potentiation of response of cat nictitating membrane to acetylcholine, 173
——, effect on oxygen-induced convulsions, in mouse, 358, 362
Muscle, smooth, guinea-pig ileum, response to barium and potassium ions, and effect of tetrodotoxin, eserine and hyoscine on, 273
——, ——, ——, response to polypeptides, and effect of tetrodotoxin, eserine and hyoscine on, 273
——, ——, penis retractor, response to acetylcholine and noradrenaline, effect of cutting sympathetic chains and hyoscine on, in eviscerated dog, 219
——, ——, ——, response to 5-hydroxytryptamine compared with noradrenaline, 225
——, ——, ——, response to noradrenaline, effect of physostigmine and hyoscine on, 221
——, ——, ——, response to postganglionic stimulation, effect of physostigmine on, 224
——, ——, rat stomach, response to tryptamine and 5-hydroxytryptamine, effect of pH on, 108
——, ——, response to acetylcholine, and effect of hyoscine, eserine and tetrodotoxin on, 267
——, ——, response to ganglion stimulants and acetylcholine, and effect of hyoscine, eserine and tetrodotoxin on, 267
——, ——, response to 5-hydroxytryptamine, and effect of hyoscine, eserine and tetrodotoxin on, 271
——, ——, response to noradrenaline and histamine, and effect of tetrodotoxin and hyoscine on, 266
Noradrenaline (*contd.*)
——, effect on isoprenaline-primed and -resistant rat uteri, 293
——, in invertebrate nervous tissue, 63
——, response of penis retractor muscle to, and effect of cutting sympathetic chains, acetylcholine and hyoscine on, in eviscerated dog, 219
——, ——, effect of physostigmine and hyoscine on, 221
——, response of isoprenaline-primed and unprimed rat uterus to, effect of α- and β-receptor blocking agents on, 295
——, response of mammalian organ preparations to, and effect of histamine and tetrodotoxin on, 266
——, response of nictitating membrane to, and effect of histamine on, in curarized cat, 169
——, response of rabbit central ear artery to, effect of calcium ions on, 322
——, ——, effect of calcium and magnesium ions on, 323
——, stability of, effect of various incubation media on, 312
——, subcellular distribution of, in mouse heart preparations, effect of nialamide, reserpine, ATP, magnesium ion concentration and temperature on, 344
——, uptake and subcellular distribution of, in mouse heart preparations, comparison with α-methylnoradrenaline and metaraminol, 343
——, ——, ——, response to reserpine and monoamine oxidase inhibition, 99
——, ventricular retention of, effect of amine concentration and incubation time on, 312
——, ——, effect of anoxia and cationic composition of medium on, 313
——, ——, influence of cations on, in isolated rat heart, 309

N

Neostigmine, intracarotid injection of, response to, and effect of carotid artery ligation on, in conscious dog, 46
Nerve, periarterial, response of rabbit central ear artery to stimulation of, effect of calcium and magnesium ions on, 322
——, vagus, effect of tetrodotoxin on, 274
Nervous tissue, echinoderm, mollusc and crustacean, catecholamines in, 63
Neurone blocking agents, adrenergic, effect on pressor responses to various drugs, in anaesthetized rat, 194
Nialamide, effect on uptake and subcellular distribution of noradrenaline, in mouse heart, 100
——, ——, α-methyl noradrenaline and metaraminol, in mouse heart preparations, 344
Nicotine, response of smooth muscle preparations to, and effect of hyoscine, eserine, and tetrodotoxin on, 267
Nictitating membrane, response to adrenaline, noradrenaline, and acetylcholine, potentiation by histamine, 168
Nitrite, effect on response of cat nictitating membrane to acetylcholine, 175
Noradrenaline, blood flow response to, effect of propranolol on, 213
——, blood pressure response to, and effect of bretylium, phenoxypropylguanidine and bethanidine on, in anaesthetized rat, 195
——, ——, effect of adrenergic neurone blocking agents and adrenalectomy on, 200
——, effect on isolated blood-perfused cat jejunum, 370
——, effect on isolated rat uterus in induced oestrus, 292

O

Ouabain, and DH-ouabain, cardiac response to, in guinea-pig, 284
——, ——, response of isolated guinea-pig heart preparations to, 287
——, response of dog heart–lung preparation to, effect of reserpine and pronethalol on, 303
Δ1,4-3-Oxo-digitoxigenin, cardiac response to, in guinea-pig, 283
——, response of isolated guinea-pig heart preparations to, 287
Oxygen, convulsant and anaesthetic effects of, and action of bromide on, 356
——, ——, and action of drugs, in mouse and rat, 350
——, lethality at high pressure of, and effects of duration of exposure and drugs on, 355
——, site of action in oxygen poisoning, 352
Oxytocin, effect on isolated blood-perfused cat jejunum, 370
——, response of isoprenaline-primed rat uterus to, 295

P

PBS. *See* Polymyxin B sulphate
Pain, induced by polymyxins, in man, 132
Papaverine, effect on response of cat nictitating membrane to acetylcholine, 175
Paracetamol, metabolism of, in man, 152
Paramethadione, effect on oxygen-induced convulsions, in mouse, 357, 361

pH, of bathing fluids, effect on response of rat stomach smooth muscle to tryptamine and 5-hydroxytryptamine, 108
——, ——, ——, action of phenylisopropyl hydrazine, 109
Pheniprazine, and with α-methyldopa, effect on brain 5-hydroxytryptamine and 5-hydroxyindol-3-ylacetic acid, in mouse, 338
Phenoxybenzamine, effect on response to adrenaline, noradrenaline, phenylephrine and 5-hydroxytryptamine, of isoprenaline-primed and unprimed rat uteri, 294
——, effect on vasodilator action of propranolol, in anaesthetized dog, 207
——, plus propranolol, effect on blood flow response to adrenaline, 212
Phenoxypropylguanidine, effect on blood pressure response to [4-(*m*-chlorophenylcarbamoyloxy)-but-2-ynyl]trimethylammonium, noradrenaline and tyramine, in anaesthetized rat, 195
——, effect on blood pressure response to noradrenaline, 200
Phentolamine, effect on blood pressure response to bradykinin, in rat, 12
——, effect on response to adrenaline and noradrenaline, and on histamine potentiation of response to acetylcholine, of nictitating membrane, in curarized cat, 170
——, effect on response to adrenaline, noradrenaline, phenylephrine and 5-hydroxytryptamine, of isoprenaline-primed and unprimed rat uteri, 294
Phenylbutazone, anti-inflammatory effect of, fertile egg test for, 384
Phenylephrine, effect on isolated rat uterus in induced oestrus, 292
——, effect on isoprenaline-primed and -resistant rat uteri, 293
——, response of isoprenaline-primed and unprimed rat uterus to, effect of α- and β-receptor blocking agents on, 295
2-Phenylethanol, +barbitone, effect on growth rate of *Aerobacter aerogenes*, 93
Phenylisopropyl hydrazine, effect on response of rat stomach smooth muscle to tryptamine and 5-hydroxytryptamine at varying pH, 109
Physalaemin, blood pressure response to, effect of guanethidine on, in rat, 10
Physostigmine, effect on lacrimal secretion response to lacrimal nerve stimulation, 3
——, effect on response of penis retractor muscle to noradrenaline, and action of hyoscine on, in eviscerated dog, 221
——, effect on response of penis retractor muscle to postganglionic stimulation, and action of hyoscine, 224
——, intracarotid injection of, response to, and effect of carotid artery ligation on, in conscious dog, 46
Pithing, effect on blood pressure responses to bradykinin, eledoisin and physalaemin, and on action of guanethidine and propranolol, in rat, 13
Placenta, human, identification of prostaglandins in, 234
Polymyxin B sulphate, minimum inhibitory concentration of, against *E. coli*, and effect of temperature on, 127
Polymyxins, sodium sulphomethyl derivatives of, hydrolysis and side effects of, 125, 132
Polypeptides, response of guinea-pig ileum smooth muscle preparations to, and effect of tetrodotoxin, eserine and hyoscine on, 273
——, vasoactive, response to, effect of guanethidine, propranolol and related agents on, in rat, 8
Polysaccharides, influence of molecular weight on vascular permeability response to, in rat skin, 17, 19
——, vascular permeability response to, effect of glucose and other sugars on, 20
Potassium ions, bath concentration of, effect on ventricular noradrenaline retention, 313
——, excess in incubating medium of, effect on acetylcholine release from guinea-pig intestine of, 164
——, response of guinea-pig ileum smooth muscle preparations to, and effect of tetrodotoxin, eserine and hyoscine on, 273
Potentials, action and resting, vagus nerve, response to tetrodotoxin, 274
Procaine, effect on acetylcholine release from guinea-pig intestine of, 162
——, effect on oxygen-induced convulsions, in mouse, 358, 362
Pronethalol, effect on digitalis toxicity, in dog heart–lung preparation, 302
——, effect on lethal dose of ouabain, in vagotomized dog, 303
——, effect on response to adrenaline, noradrenaline, phenylephrine and 5-hydroxytryptamine, of isoprenaline-primed and unprimed rat uteri, 294
——, effect on response to bradykinin, in rat, 10
——, effect on vasodilator action of propranolol, in anaesthetized dog, 208
Propranolol, effect on response to bradykinin, in rat, 10
——, effect on vasoaction of adrenaline, 210
——, effect on vasoaction of noradrenaline and bradykinin, 213
——, effect on vasodilator action of isoprenaline, 208
——, external iliac arterial injection of, response of blood flow to, and effect of (+)- and (—)-propranolol on, in anaesthetized dog, 205
——, plus phenoxybenzamine, effect on blood flow response to adrenaline, 212
——, vasodilator action of, effect of pronethalol, I.C.I. 45,763 and dichloroisoprenaline on, 208
(+)-Propranolol, effect on vasodilator action of isoprenaline, 209
——, effect on vasodilator action of propranolol, 205
(−)-Propranolol, effect on vasodilator action of propranolol, 205
Prostaglandins, effect on isolated blood-perfused cat jejunum, 370
——, effect on isolated umbilical artery preparations, 234
——, in human umbilical cord, identification by chromatography, 232
Proteins, in human plasma kininogens, 28
Ptosis, induced by *d*-tubocurarine, in conscious dog, 45

R

" Rate " method, of calculating excretion of drugs, 147, 155, 184
Receptor blocking agents, α- and β-, effect on response to adrenaline, noradrenaline, phenylephrine and 5-hydroxytryptamine, of isoprenaline-primed and unprimed rat uteri, 294
α-Receptor blocking agents, effect on blood pressure response to bradykinin, in rat, 12
β-Receptor blocking agents, effect on blood pressure response to bradykinin, 10
Reserpine, effect on blood pressure response to [4-(*m*-chlorophenylcarbamoyloxy)-but-2-ynyl]trimethylammonium and tyramine, in anaesthetized rat, 196

Reserpine (*contd.*)
——, effect on blood pressure response to noradrenaline, 200
——, effect on digitalis toxicity, in dog heart–lung preparation, 302
——, effect on subcellular distribution of noradrenaline, α-methyl noradrenaline and metaraminol, in mouse heart preparations, 344
——, effect on uptake and subcellular distribution of noradrenaline, in mouse heart, 100
——, effect on uptake of noradrenaline, α-methyl noradrenaline and metaraminol, by mouse heart preparations, 345
——, emesis induced by, and effect of MMT or reserpine pre-treatment on, in dog, 38
Retinotoxicity, of schistosomicidal agents, 248

S

SPBMS. *See* Sodium polymyxin B methanesulphonate
SRS-A. *See* Slow reacting substance in anaphylaxia
Saliva, human, effect on circulating blood bradykinin, 374
Schistosomicides, oral toxicity and activity of, in mouse, 248
" Sigma minus " method, of calculating urinary excretion of drugs, 143, 154, 181
Slow muscle contracting activity, of human plasma, and effect of lecithin on, 82
——, of plasma–lecithin incubate, and effect of dialysis and calcium ions on, 84
——, ——, effect of kaolin and esterase rich fraction of blood on, 85
Slow reacting substance in anaphylaxia, effect on cat and guinea-pig small intestine, comparison with bradykinin, 370
Sodium bromide. *See* Bromide
Sodium ions, bath concentration of, effect on ventricular noradrenaline retention, 313
——, lack in incubating medium of, effect on acetylcholine release from guinea-pig intestine of, 164
Sodium nitrite. *See* Nitrite
Sodium polymyxin B methanesulphonate, electrophoretic separation and hydrolysis of sulphomethyl groups of, and effect of temperature on, 129
——, intramuscular injection of, side effects of, comparison with colistin sulphomethate in man, 132
——, minimum inhibitory concentration of, against *E. coli*, and effect of temperature on, 127
Sodium salicylate, anti-inflammatory effect of, fertile egg test for, 384
Stomach, histamine in, response to cortisone, in intact and pylorus ligated guinea-pig, 330
——, isolated preparations of, response to electrical stimulation, and effect of atropine, hyoscine and eserine on, 261
——, ——, ——, effect of tetrodotoxin on, and action of hyoscine and eserine, 262
Substance P, effect on isolated blood-perfused cat jejunum, 370
Substrates, for plasma kininogens, molecular dimensions and protein content of, 28
——, ——, molecular weight of, 32
Sympathetic transmission, response to calcium and magnesium ions, in rabbit central ear artery, 319

T

Temperature, effect on acetylcholine release from guinea-pig intestine of, 162
β-Tetrahydronaphthylamine, effect on brain 5-hydroxytryptamine and 5-hydroxyindol-3-ylacetic acid, in mouse, 337
——, effect on response of brain 5-hydroxytryptamine and 5-hydroxyindol-3-ylacetic acid, to tryptophan, 337
Tetrodotoxin, effect on innervated smooth muscle preparations, 259
——, effect on response to acetylcholine, of smooth muscle preparations, 267
——, effect on response to barium and potassium ions, of guinea-pig ileum smooth muscle preparations, 273
——, effect on response to electrical stimulation, of isolated stomach preparations, and action of hyoscine and eserine, 262
——, ——, of rabbit small intestine preparations, 262
——, effect on response to electrical stimulation and acetylcholine, of guinea-pig ileum, 262
——, effect on response to ganglion stimulants, of smooth muscle preparations, 267
——, effect on response to 5-hydroxytryptamine, of smooth muscle preparations, 271
——, effect on response to noradrenaline and histamine, of mammalian organ preparations, 266
——, effect on response to polypeptides, of guinea-pig ileum smooth muscle preparations, 273
Trimethadione, effect on oxygen-induced convulsions, in mouse, 357, 361
Tryptamine, and 5-hydroxytryptamine, penetration in smooth muscle and effect on contractions, 105
——, monoamine oxidase activity and lipid solubility of, and response of contraction rate of rat stomach strip to, effect of pH on, 114
——, penetration of rat stomach smooth muscle by, effect of pH on, 110
——, response of rat stomach smooth muscle to, effect of bromolysergic acid diethylamide on, 109
——, ——, effect of pH on, 108
——, response of smooth muscle to, in various mammalian organ preparations, relation to 5-hydroxytryptamine, 109
Tryptophan, response of brain 5-hydroxytryptamine and 5-hydroxyindol-3-ylacetic acid to, effect of 2-aminotetralin on, in mouse, 337
d-**Tubocurarine,** intracarotid infusion of, blood pressure response to, in anaesthetized dog, 51
——, ——, response to, in conscious dog, 49
——, intracarotid injection of, response to, 45
Tyramine, blood pressure response to, and effect of bretylium, phenoxypropyl-guanidine and bethanidine on, in anaesthetized rat, 195
——, ——, effect of adrenergic neurone blocking agents and adrenalectomy on, 196
——, response of rabbit central ear artery to, effect of calcium ions on, 322
——, ——, effect of calcium and magnesium ions on, 323

U

Umbilical cord, human, identification of prostaglandins in, 232
Urine, excretion of drugs and metabolites in, methods of calculation of, 143, 181
——, excretion of paracetamol in, 152
——, human, as incubating fluid, effect on hydrolysis of sulphomethyl groups of polymyxins, 130